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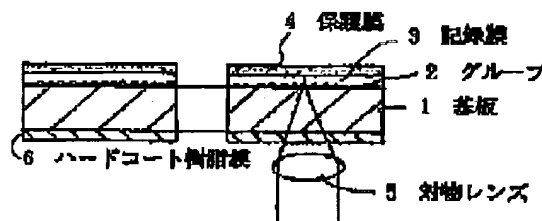
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APPLICATION NUMBER : 04243088

APPLICANT : FUJITSU LTD;

INVENTOR : TSUGAWA IWAO;

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TITLE : PRODUCTION OF OPTICAL DISK



ABSTRACT : PURPOSE: To provide the optical disk having high reliability by subjecting the light incident surface side of a substrate for forming the optical disk to a surface treatment, then applying a hard coating resin film on this substrate surface.

CONSTITUTION: Amorphous polyolefin which lessens the double refraction of an incident laser beam and has high heat resistance and good adhesion of a hard coating film 6 is used as the substrate 1 for forming the optical disk. The surface of the substrate 1 is then subjected to a plasma etching treatment by using gaseous Ar, by which the surface is worked to a rugged shape. The substrate 1 surface is then spin-coated with a UV curing resin at 5 $\mu$ m thickness and is cured with UV rays by using a mercury lamp. A recording film 3 and a protective film 4 are then successively formed thereon. The substrate 1 is subjected to the surface treatment and is provided with the rugged grooves in such a manner and, therefore the wettability with the resin is improved and the adhesion between the substrate 1 and the hard coating resin film 6 is improved. The optical disk which substantially prevents the peeling of the resin film 6 even after long-time operation and has high reliability is obtd.

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